

# E UPENDRA REDDY

Tech Enthusiast

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🌐 [upendra-reddy-e](#)

## ABOUT ME

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A passionate and self driven student with strong hands on experience in Embedded programming, Web development and IoT systems. Learning to connect physical and digital world to solve real time problems.

## TECHNICAL SKILL/TECHNOLOGIES

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- **Full Stack Web Development** : HTML, CSS, JavaScript, PHP, MySQL
- **Programming Languages** : C, Python, Java
- **Embedded Systems and IoT** : Arduino, Sensors, 8051 Microcontroller, Embedded C
- **Tools and Software** : Arduino IDE, Keil, Proteus, XAMPP
- **Additional Skill** : Graphic Design

## PROJECTS/EXPERIENCE

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**IoT Based Smart Leak Detection System** - Esp32, Sensors, C, HTML, CSS, JS, PHP, MySQL, Arduino IDE

Developed a IoT based Water leak detection system to participate in SIH-2025 Problem statement given by Government of Kerala

- Esp32 detects the leak in the pipeline using pressor sensors and programmed logic
- It sends sensor values and Leak Status to MySQL database using http request
- <https://drop.xo.je> is the web interface prototype for users and admin to check real time values of sensors, it also have a feedback portal, along with admin dashboard
- [More details about our Project](#)

**Digital Watch** - 8051 Microcontroller, Embedded C, Keil, Proteus

Developed a Digital Clock which runs on 8051 Microcontroller Timers, and Interrupts using Proteus and Keil

- Wrote C code in Keil software and debugged it
- Developed hardware using Proteus tool with AT89C51, 7 segment display

**Questronics Event Portal** - HTML, CSS, JS, PHP, MySQL

Built an event portal allowing student teams to retrieve Questions using teamcode (Ex: team1, team2, team15)

- Conducted an event for students in college about C programming

## EDUCATION

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**CVR COLLEGE OF ENGINEERING, HYDERABAD**

B. Tech, Electronics and Communication engineering

2023-2027

CGPA : 8.03

**NARAYANA JUNIOR COLLEGE, MADHAPUR**

Secondary Education

2021-2023

Percentage : 88.9%

**JAWAHAR NAVODAYA VIDYALAYA, NIZAMSAGAR**

Primary Education

Passes out : 2021